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October 22, 1998

BY HAND DELIVERY

Ms. Magalie R. Salas Secretary Federal Communications Commission Room 222 1919 M Street, N.W. Washington, D.C. 20554 CCT 2 2 3 COMMISSION OFFICE OF THE SECRETARY

Re: Notice of Ex Parte Communication Regarding the Petition for Forbearance of the Cellular Telecommunications Industry Association (filed Dec. 16,

1997), in Telephone Number Portability, CC Docket No.

95-116

Dear Ms. Salas:

Yesterday, on behalf of the Telecommunications Resellers Association ("TRA"), the undersigned of Hogan and Hartson L.L.P., David Gusky, Vice President and Director of Wireless Services, TRA, and Steve Trotman, Director of Local Resale Services, TRA, Terry Deshler of Snavely, King, Majoros, O'Connor & Lee, and Earl Comstock of Sher & Blackwell, met with David Furth and Clint Odum of the Wireless Telecommunications Bureau and Gayle Radley Teicher and Patrick Forster of the Common Carrier Bureau regarding the referenced proceeding.



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The purpose of the meeting was to discuss TRA's opposition to the December 16, 1997 request of the Cellular Telecommunications Industry Association ("CTIA") for forbearance from the wireless number portability requirement, and to describe an alternative for implementing number portability under the current time frame. The points discussed in the meeting are set forth in the attached handout, which was distributed at the meeting. TRA also made the points set forth in its August 10, 1998, comments and its August 31, 1998, reply comments on the NANC report, filed in this docket. TRA also discussed the points made in its February 23, 1998, comments in opposition to CTIA's forbearance petition.

I have hereby submitted two copies of this notice to the Secretary, as required by the Commission's rules. Please return a date-stamped copy of the enclosed (copy provided).

Please contact the undersigned if you have any questions.

Respectfully submitted,

Linda L. Oliver

Counsel for Telecommunications

Resellers Association

Enclosure

cc:

David Furth Clint Odum Gayle Radley Teicher Patrick Forster

Wareless Nombe Recommenda



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Competition and Wireless NP

- Non-Call Associated Signaling
- SS7 Network
- Roamer Registration Examined
- Nation-wide Wireless NP
- Implementation Comparison
- TRA Approach Meets Timetable
- Recommendations

The primary goal of Congress in enacting the Telecommunications Act of 1996 was the development of competitive telecommunications markets and the reduction of regulatory constraints.

Local number portability (NP) was singled-out for special treatment when Congress specifically mandated that it be an obligation of all local exchange carriers.

The Commission correctly expanded this mandate by applying NP obligations on Commercial Mobile Radio Service (CMRS) providers as well.

As CMRS services offerings broaden, prices fall and subscribership begins to approach wireline levels, the absence of wireless NP will increasing hobble competition - not only in wireless markets but in wireline markets as well.

Limited competition in wireless telecommunications markets will necessitate the Commission's continued regulatory oversight of incumbent carriers.

While such oversight is necessary to protect consumers, it skews market signals, reduces investment incentives, stifles innovation and encourages higher prices.

For every telephone call - mobile or land-line - two distinct types of routing takes place in modern telecommunications networks.

- Call Routing the process of defining and establishing a voice path over which a conversation can take place.
- Non-Call Associated Signaling the process of identifying a caller's specific service parameters and determining the network functions necessary to provide the relevant services.

Wireless NP issue relates to non-call associated signaling.

Non-call associated signaling is performed over a parallel packet-based data network known as the SS7 network.

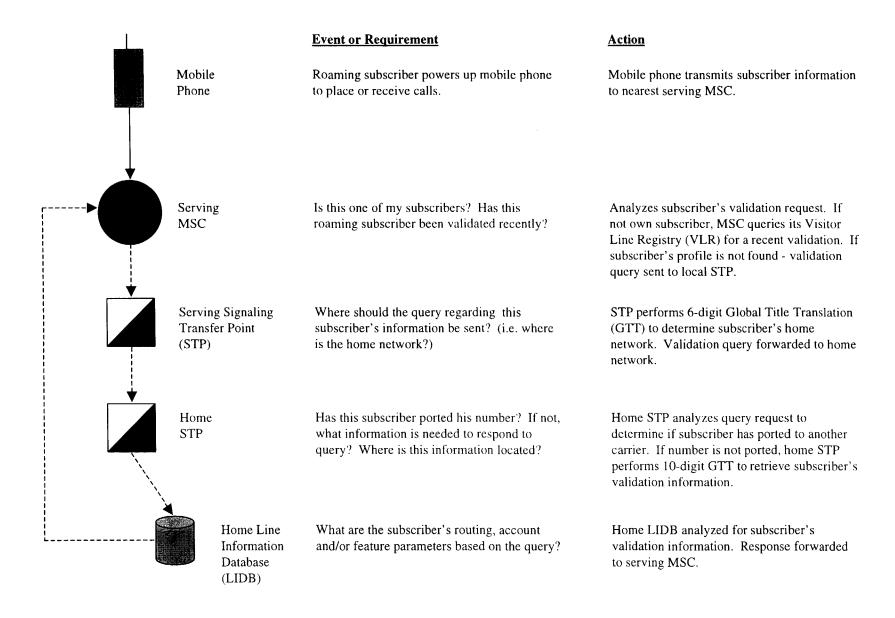
By using the SS7 network to transmit signaling information, carriers are able to free up valuable voice-grade trunks and increase their available capacity.

The NP solution that was deployed in the wireline markets - and ultimately the solution that will be deployed in the wireless markets - is based on modifications to the SS7 network processes.

Roamer registration and subscriber validation messages make up a significant portion of SS7 network traffic.

Roamer registration under current conditions for non-ported numbers, the Cellular Telecommunications Industry Association (CTIA) approach for ported numbers, and the Telecommunications Resellers Association (TRA) approach for ported numbers are illustrated in the following diagrams.

Current Roamer Registration



CTIA Roamer Registration - Ported Number

		Event or Requirement	Action
	Mobile Phone	Roaming subscriber powers up mobile phone to place or receive calls.	Mobile phone transmits subscriber information to nearest serving MSC.
	Serving MSC	Is this one of my subscribers? Has this roaming subscriber been validated recently?	Analyzes subscriber's validation request. If not own subscriber, MSC queries its VLR for a recent validation. If subscriber's profile is not found - validation query sent to local STP.
	Serving STP	Where is this subscriber's home network?	STP performs 10-digit Global Title Translation (GTT) based on different MIN/MDN numbers to determine subscriber's home network. Marks subscriber's number as "dipped." Validation query forwarded to home network.
	Donor STP	N/A	N/A
	Home STP	What information is needed to respond to query? Where is this information located?	Home STP forwards request to LIDB for subscriber's validation information.
	Home LIDB	What are the subscriber's routing, account and/or feature parameters based on the query?	Home LIDB analyzed for subscriber's validation information. Response forwarded to serving MSC.

TRA Roamer Registration - Ported Number

		Event or Requirement	Action
	Mobile Phone	Roaming subscriber powers up mobile phone to place or receive calls.	Mobile phone transmits subscriber information to nearest serving MSC.
	Serving MSC	Is this one of my subscribers? Has this roaming subscriber been validated recently?	Analyzes subscriber's validation request. If not own subscriber, MSC queries its VLR for a recent validation. If subscriber's profile is not found - validation query sent to local STP.
	Serving STP	Where should the query regarding this subscriber's information be sent? (i.e. where is the home network?)	STP performs 6-digit Global Title Translation (GTT) to determine subscriber's home/donor network. Validation query forwarded to home network.
	Donor STP	Has this subscriber ported his number? If so, to whom was it ported?	Donor STP analyzes query request to determine whether subscriber has ported to another carrier. If so, donor STP performs 10-digit GTT, marks query number as "dipped" and forwards request to home STP.
	Home STP	What information is needed to respond to query? Where is this information located?	Home STP forwards request to LIDB for subscriber's validation information.
	Home LIDB	What are the subscriber's routing, account and/or feature parameters based on the query?	Home LIDB analyzed for subscriber's validation information. Response forwarded to serving MSC.

As the examples illustrate, the CTIA approach would require the Commission to order nation-wide wireless NP.

The CTIA approach vests the serving Mobile Service Center (MSC) with the responsibility for performing NP database dips. Donor carriers have no responsibility for ported numbers.

Because serving MSCs outside the top 100 Metropolitan Statistical Areas (MSAs) have no incentive to implement Mobile Identification Number /Mobile Directory Number (MIN/MDN) separation for someone else's subscribers, the Commission would have to order them to do this.

Regardless of implementation solution - wireless NP will require:

- Number Portability Administration Center (NPAC) Connectivity hardware/software interconnections.
- NPAC User fees participating carriers subscribe to NPAC.
- Telephone number inventory systems modifications to maintenance/use of numbering resources.
- Provisioning systems integration of existing systems.
- Wireless Intelligent Network query software development.
- NP database either the carrier will develop own system/database or will outsource.

Additional Tasks to Implement CTIA's Approach

Develop MIN/MDN separation capability.

- Standards Development
- Hardware/Software Development
- Vendor/Industry Arrangements

Modify all business processes to recognize MIN/MDN separation.

• Point of sale, billing, service ordering, customer service

Deploy MIN/MDN capability in all switches/cell sites.

Flash-cut all systems to new capability.

Additional Tasks to Implement TRA Approach

Establish interconnection agreements with relevant carriers.

- Define signaling responsibilities
- Develop service procedures regarding network interoperability and reliability

Develop mechanisms for inputting NP information into NPAC and for retrieval of such information.

Deployment of wireline NP solution in the top 100 MSAs took approximately two years to complete after formally ordered by the Commission.

Because the TRA approach utilizes processes already developed for the wireline industry, wireless NP deployment will take less time.

Implementation of the TRA approach can reasonably be expected to be completed before the March 31, 2000 deadline ordered by the Commission.